IRC-3

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WASHINGTON STATE BUILDING CODE COUNCIL

APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT TO THE WASHINGTON STATE BUILDING CODE

ŧ.	State Building Code to be Amended.	
	[] International Building Code	[] Ventilation and Indoor Air Quality Code
	[X] International Residential Code	[] International Mechanical Code
	[] ICC ANSI A117.1 Accessibility Code	[] International Fuel Gas Code
	[] International Fire Code	[] NFPA 54 National Fuel Gas Code
	[] Uniform Plumbing Code	[] NFPA 58 Liquefied Petroleum Gas Code
	[] State Energy Code	
	Section 403.4, 404.	Page 87, 90
2.	Applicant:	
	Anne O'Rourho	· · · · · · · · · · · · · · · · · · ·
3,	Signed:	
	DuoRanh	278-10
	Proponent	Title Date
4.	Contact Person:	
	Anne Okovka	
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FOUNDATIONS

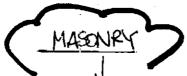


TABLE R404.1.1(3)

10-INCH FOUNDATION WALLS WITH REINFORCING
WHERE d > 6.75 INCHES**

ì	HEIGHT OF	MINIMUM VERTICAL REINFORCEMENT AND SPACING (INCHES) ^{5, c} Soli classes and later soli load ^d (paf per foot below grade)			
WALL HEIGHT					
	UNBALANCED BACKFILL*	GW, GP, SW and SP soils	GM, GC, SM, SM-SC and ML soils 45	SC, ML-CL and inorganic CL soils	
6 feet 8 inches	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56	
	5 feet	#4 at 56	. #4 at 56	#4 at 56	
	6 feet 8 inches	#4 at 56	#5 at 56	#5 at 56	
7 feet 4 inches	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56	
	5 feet	#4 at 56	#4 at 56	#4 at 56	
	6 feet	#4 at 56	#4 at 56	#5 at 56	
	7 feet 4 inches	#4 at 56	#5 at 56	#6 at 56	
8 feet	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56	
	5 feet	#4 at 56	#4 at 56	#4 at 56	
	6 feet	#4 at 56	#4 at 56	#5 at 56	
	7 feet	. #4 at 56	#5 at 56	#6 at 56	
	8 feet	#5 at 56	#6 at 56	#6 at 48	
	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56	
	5 feet	#4 at 56	#4 at 56	#4 at 56	
8 feet 8 inches	бfeet .	#4 at 56	#4 at 56	#5 at 56	
	7 feet	#4 at 56	#5 at 56	#6 at 56	
	8 feet 8 inches	#5 at 56	#6 at 48	#6 at 32	
	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56	
	5 feet	#4 at 56	#4 at 56	#4 at 56	
9 feet 4 inches	6 feet	#4 at 56	#5 at 56	#5 at 56	
	7 feet	#4 at 56	#5 at 56	#6 at 56	
	8 feet	#5 at 56	#6 at 56	#6 at 40	
	9 feet 4 inches	#6 at 56	#6 at 40	#6 at 24	
10 feet	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56	
	5 feet	#4 at 56	#4 at 56	#4 at 56	
	6 feet	#4 at 56	#5 at 56	#5 at 56	
	7 feet	#5 at 56	#6 at 56	#6 at 48	
	8 feet	#5 at 56	#6 at 48	#6 at 40	
ľ	9 feet	#6 at 56	#6 at 40	#6 at 24	
	10 feet	#6 at 48	#6 at 32	#6 at 24	

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot per foot = 0.157 kPa/mm.

a. Mortar shall be Type M or S and masonry shall be laid in running bond.

Alternative reinforcing bar sizes and spacings having an equivalent cross-sectional area of reinforcement per lineal foot of wall shall be permitted provided the spacing of the reinforcement does not exceed 72 inches.

c. Vertical reinforcement shall be Grade 60 minimum. The distance, d, from the face of the soil side of the wall to the center of vertical reinforcement shall be at least 6,75 inches.

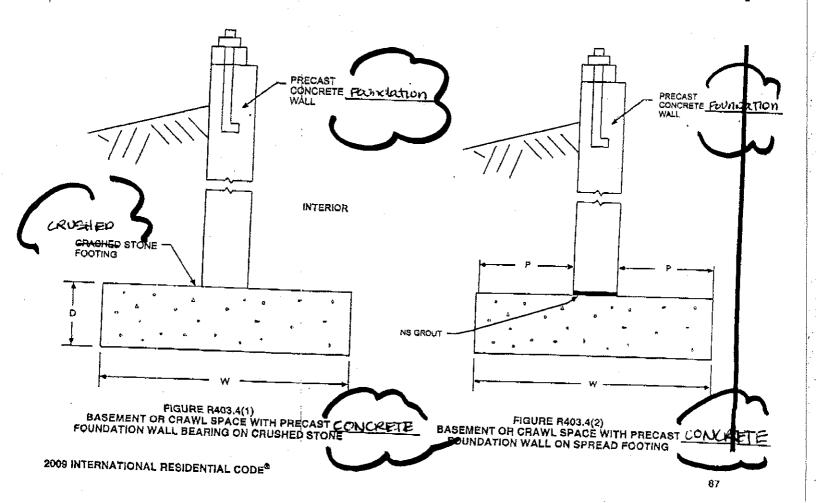
d. Soil classes are in accordance with the Unified Soil Classification System and design lateral soil loads are for moist conditions without hydrostatic pressure. Refer to Table R405.1.

e. Unbalanced backfill height is the difference in height between the exterior finish ground level and the lower of the top of the concrete footing that supports the foundation wall or the interior finish ground level. Where an interior concrete slab-on-grade is provided and is in contact with the interior surface of the foundation wall, measurement of the unbalanced backfill height from the exterior finish ground level to the top of the interior concrete slab is permitted.

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TABLE R403,4 MINIMUM DEPTH OF CRUSHED STONE FOOTINGS (D), (Inches) LOAD BEARING VALUE OF SOIL (pai) MH, CH, CL, ML 8C, GC, SM, GM, SP, SW QP, GW Wall width (Inches) Wall width (inches) Wall width (inches) Wall width (Inches) Conventional light-frame construction 1-story 1100 plf 2-story 1800 plf 3-story 2000 plf ø 4-Inch brick veneer over light-frame or 8-inch hollow concrete masonry 1500 plf 1-story 2-story 2700 plf 3-story 4000 plf б 8-inch solid or fully grouted masonry 1-story 2000 plf б 2-story 3600 plf б б 3-story 5300 plf

For SI: 1 inch = 25.4 mm, 1 pound per square inch = $6.89 \, \text{kPa}$.



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Economic	Impact	Wor	ksheet

(Required for statewide amendment requests. Attach supporting documentation.) Code References: 2009 IRC Title: Foundations

Proponent: Annie O'Rouse Phone: 340 417-560 Date: 2.28.10 Part I & Amendment Benefit: PROBLEM(S) ADDRESSED: editorial changes PRIMARY REASON FOR AMENDMENT: (check one only) ☐ Mandate from legislation or courts Protect public health, safety and welfare Code change

Other <u>Autorial Changes</u> □ Reduce cost ☐ "Manage risk" for government TYPE OF BENEFITS PROJECTED: (check all that apply) ☐ Saves lives/reduces injuries □ Saves energy ☐ Protects environment ☐ Protects/improves long-term health ☐ Increases accessibility Reduces construction cost: ☐ Reduces regulation ☐ Over existing code requirement Reduces government enforcement cost ☐ Canceling new code requirement Clarifies/improves existing code ☐ Off-setting new code requirement ☐ Protects property loss/damage ☐ Increases construction alternatives □' Other ______ Part II • Amendment Impacts: Remodeling/Tenant Improvement/Repair TYPES OF CONSTRUCTION: New Construction (See reverse for instruction on items a through e) COMPLETE TABLE FOR EACH BUILDING TYPE CHECKED Owner^C Other Supporting Enforcement^b Construction⁸ Building Type data Ongoing 1st Cost attached C/Sd Degreee Residential C/Sd Degree C/Sd Degree C/Sd Degree^e Single family Multi-family Commercial/Retail Industrial Government/Utilities Other: OTHER EFFECTS: Evaluate by number scale 0-3 (0=none, 3=significant) Evaluate by letter code (Spec, Custom, Factory, Remodel, Manufact., Other, NA) Likelihood for litigation Decrease public cooperation A Advantage one industry MA Disadvantage one industry Disadvantage small business Other ____ Part III • Comments and Recommendations: Evaluate each by number scale 0-3 (0-none, 3-significant) Evaluate Yes or No (circle one) Difficulty to Enforce Cost of not adopting amendment
Degree of TAG controversy Y / Were alternative solutions considered Y /N Recommend further benefit/impact analysis Costs exceed Benefits Y / N Recommend future benefit/impact review C/S Confidence level